

PATENT SPECIFICATION



Convention Date (United States): Feb. 10, 1923.

211,153

Application Date (In United Kingdom): Feb. 9, 1924. No. 3446/24.

Complete Accepted: Aug. 21, 1924.

COMPLETE SPECIFICATION.

Improvements in Bullet Proof Armour.

We, BULLET PROOF VEST CORPORATION, incorporated under the laws of the State of New York, United States of America, of 22, East 17th Street, New York City, United States of America, Assignees of LEO KRAUSE, a citizen of the United States of America, of 108, West 95th Street, New York, United States of America, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention relates to a bullet proof armour composed of overlapping metal plates and a padding.

According to the present invention tenacious metal plates composed of a metal lighter than steel but of sufficient strength to resist the impact of a bullet, such as duralumin is covered with a material known as metallized fibre so that the heat from a bullet cannot set it on fire or moisture rust the plates, the padding between the metallized fibre and the plates whereby the force of the missile is considerably lessened before it impinges on the plate, being quilted.

The invention resides more particularly in the novel combinations hereinafter described and claimed, reference being made to the accompanying drawing in which:

Figure 1 represents a front elevation of a shield embodying this invention.

Figure 2 is a vertical longitudinal section of the same.

Figure 3 is a perspective view of a portion of the quilt.

In the drawing the numeral 5 designates a series of metal plates made of duralumin each plate being enclosed in a pocket 6 of fabric. The pockets partly overlap each other to produce a shingle formation and each pocket is fastened at its upper end by means of

stitches 7 to a piece of fabric 8 located at the back of the pockets.

Arranged at the front of the pockets is a quilted member built up of a stuffing of raw China silk 9 covered with metallized fabric 10 secured together by stitches 11 as indicated in Figure 3. The term "metallized fabric" is the ordinary term used for a fabric or tough paper which has a mixture of metal wool or fine filaments of metal compounded with it to render it fireproof. The article is commercially on sale and in use especially the tough paper. A similar quilt 12 is located at the back of the fabric 8. On each quilt is secured by means of stitches 13 a sheet of metallized fibre 14 and a pair of shoulder straps 15 support the shield on the body.

In the drawing the invention is shown applied to a shield adapted to be worn under a coat but it will be obvious that it could be utilized for other purposes such as a cover for the actuating parts of an aeroplane thus protecting it against gunshot.

The metallized fibre placed on the outside of the quilt is practically fire and waterproof consequently a bullet fired from a gun at close range will not inflame the fibre nor will any moisture have any effect on it. The stuffing is preferably composed of China silk which by its toughness and close compression will retard a missile. A bullet fired at great velocity will merely embed itself in the duralumin and if it should go through it will be stopped by the quilt behind the plates. The duralumin is used in the present device because it is sufficiently tenacious and strong, yet much lighter than any other metal so as not to add any undue weight to the shield member.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to

be performed, we declare that what we claim is:—

1. A bullet proof armour comprising a shield constructed of a series of tenacious metal plates lighter than steel, and a quilted member arranged adjacent to the plates.

2. A bullet proof armour as in Claim 1 having a pocket enclosing each plate.

3. A bullet proof armour as in Claim 2 in which the plates partly overlap each other, and the quilted member covers the front and back of the pockets.

4. A bullet proof armour as in any of the preceding claims with a metallized fibre sheet secured to the quilted member.

5. A bullet proof armour as in Claim 1 in which the plates are constructed of duralumin.

6. A bullet proof armour as in Claim 2 in which the quilted member has a stuffing of raw China silk.

7. A bullet proof armour comprising a shield constructed of a series of intermediate metal plates partly overlapping one another, a pocket enclosing each plate, a quilted member arranged at the front and back of the pockets, such quilted member having a stuffing of raw China silk, and a metallized fibre sheet secured to the outer side of each quilt.

Dated this 9th day of February, 1924.

For the Applicants,
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[This Drawing is a reproduction of the Original on a reduced scale]

Fig. 1.

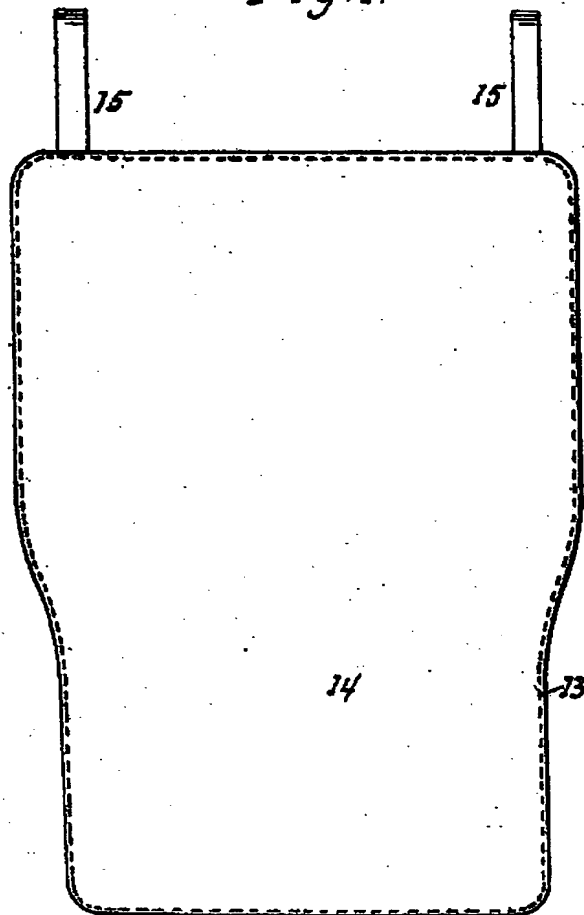


Fig. 2.

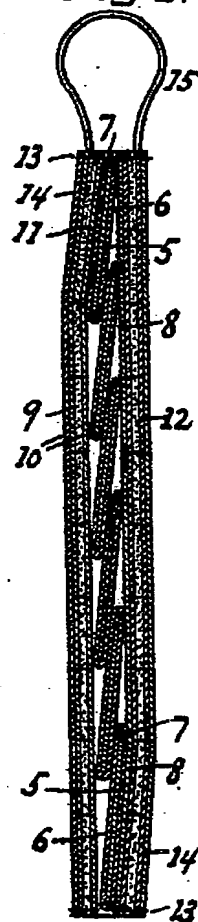
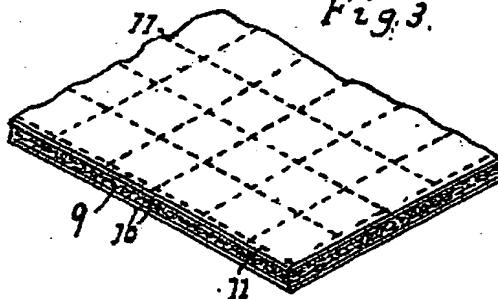


Fig. 3.



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